

12. (Amended) A method for producing an optically active alcohol, the method comprising contacting a microorganism with racemic alcohol to specifically oxidize either (S)-enantiomer or (R)-enantiomer in the racemate, wherein activity of the microorganism to regenerate an electron acceptor for oxidoreductase expressed by said microorganism is enhanced by the method comprising culturing the microorganism in a culture medium comprising a concentration of dissolved oxygen that is at least 50% less than the oxygen concentration of the medium under oxygen saturation conditions during the period that the oxidoreductase is expressed. --